

1 **Amendment to the Claims**

2 **In the Claims:**

3 Please cancel Claim 5.

4 Please amend Claims 1, 2, 6, 9, 16, 20, and 24 as follows:

5 1. (Currently Amended) A method for recording a live presentation including a predefined  
6 content portion that includes a plurality of presentation slides displayed in response to slide triggering  
7 events during the live presentation, and a live portion with live audio and/or visual content performed  
8 in conjunction with display of said plurality of presentation slides during the live presentation, the  
9 method comprising the steps of:

10 (a) generating slide display commands corresponding to said slide triggering  
11 events, for controlling display of said plurality of presentation slides during playback of a recorded  
12 presentation;

13 (b) automatically embedding the slide display commands into a data stream as the  
14 data stream is produced, the data stream comprising data corresponding to the live portion of the  
15 presentation, wherein the live content is captured as a plurality of video frames comprising a plurality  
16 of keyframes and deltaframes; and

17 (c) time indexing the plurality of keyframes and deltaframes as the live content is  
18 captured to enable synchronization of the slide display commands with the live content; and

19 (d) saving the data stream with embedded slide display commands to a file such  
20 that when the file is played, said live portion is reproduced and said plurality of presentation slides  
21 are displayed in substantial synchrony with said live portion as it is played, thereby replicating the  
22 live presentation.

23 2. (Currently Amended) The method of Claim 1, wherein the ~~step of automatically~~  
24 ~~embedding the slide display commands into the data stream comprises the steps of capturing the live~~  
25 ~~portion is captured~~ as it is performed during the live presentation; and, further comprising the step of  
26 encoding the live portion into a digital streaming format, thereby producing the data stream.

27 3. (Previously Presented) The method of Claim 2, wherein the step of automatically  
28 embedding the slide display commands comprises the step of interleaving the slide display  
29 commands into the data stream as the slide display commands are generated.  
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1 4. (Original) The method of Claim 2, wherein the live presentation is performed using a local  
2 computer that generates the slide display commands in response to the slide triggering events; and  
3 wherein the live portion of the live presentation is captured and encoded into the data stream using an  
4 encoding computer linked in communication with the local computer, further comprising the steps of:

5 (a) communicating the slide display commands from the local computer to the  
6 encoding computer; and

7 (b) interleaving the slide display commands into the data stream as they are  
8 received by the encoding computer.

9 5. (Canceled)

10 6. (Currently Amended) The method of Claim 5 1, wherein the ~~plurality of video frames~~  
11 ~~comprises a step of time indexing the~~ plurality of keyframes and deltaframes, ~~further comprising~~  
12 comprises the steps of:

13 (a) adding a plurality of time index values to the data stream;

14 (b) indexing each of said plurality of keyframes to a corresponding time index  
15 value based on the time stamp of the keyframe; and

16 (c) indexing each slide display command to a nearest preceding keyframe time  
17 index value based on a time stamp of the slide display command.

18 7. (Original) The method of Claim 1, wherein the step generating slide display commands  
19 comprises the steps of:

20 (a) capturing the slide triggering events as they occur during the live presentation;  
21 and

22 (b) generating slide display commands based on the slide triggering events that are  
23 captured.

24 8. (Original) The method of Claim 1, wherein each presentation slide is associated with a  
25 slide file that is saved to a predetermined location, and at least one of the slide display commands  
26 references the predetermined location of an associated slide file.

27 9. (Currently Amended) A method for reproducing on a viewing computer a presentation  
28 that was previously presented live, said viewing computer having a display, said presentation  
29 including a predefined content portion with a plurality of presentation slides that were displayed in  
30 response to slide triggering events during the presentation when it was presented live, and a live

1 portion comprising live audio and/or visual content performed in conjunction with display of said  
2 plurality of presentation slides during the presentation when it was presented live, the method  
3 comprising the steps of:

4 (a) producing a recording of the presentation when it was presented live by  
5 performing the steps of:

6 (i) producing a data stream comprising data corresponding to the live  
7 portion of the presentation, wherein the live portion of the presentation is captured as a plurality of  
8 video frames comprising a plurality of keyframes and deltaframes;

9 (ii) generating slide display commands corresponding to said slide  
10 triggering events captured in real time during the presentation when presented live, each slide display  
11 command controlling display of an associated presentation slide when the recording is played;

12 (iii) automatically embedding including the slide display commands with  
13 the data corresponding to the live portion of the presentation into in the data stream-while as the data  
14 stream is being produced, said slide display commands being time indexed in regard to the keyframes  
15 and deltaframes within the data stream based upon the time when the slide triggering events occurred  
16 in the presentation when presented live; and

17 (iv) saving the data stream to a data stream file that is accessible by the  
18 viewing computer;

19 (b) saving the predefined content portion to at least one presentation slide file that  
20 is accessible by the viewing computer;

21 (c) accessing the data stream file with the viewing computer;

22 (d) reproducing the live portion of the presentation on the display of the viewing  
23 computer by playing the data stream file;

24 (e) extracting the slide display commands from the data stream as the slide display  
25 commands are encountered while playing the data stream file;

26 (f) in response to each slide display command that is extracted in the preceding  
27 step, accessing data corresponding to its associated presentation slide with the viewing computer; and

28 (g) reproducing each of the plurality of presentation slides on the display of the  
29 viewing computer as data corresponding to that presentation slide is accessed by the viewing  
30 computer in the preceding step, so that when the presentation is reproduced, the associated

1 presentation slide is displayed at substantially an identical time relative to when displayed during the  
2 live portion of the presentation when presented live.

3 10. (Original) The method of Claim 9, wherein the viewing computer accesses the data  
4 corresponding to the presentation slides with a browser program.

5 11. (Original) The method of Claim 10, wherein each of said plurality of presentation slides  
6 is associated with a corresponding HTML slide file that is saved to a predetermined location on a  
7 network accessible by the viewing computer and at least a portion of said slide display commands  
8 comprise a link to the predetermined location of an associated HTML slide file on the network, each  
9 of said HTML slide files being opened in the browser program in response to its associated slide  
10 display command, said browser program interpreting the HTML slide files to reproduce said plurality  
11 of presentation slides.

12 12. (Original) The method of Claim 11, wherein the link to each HTML slide files comprises  
13 an absolute reference to a location on the network at which the HTML slide file corresponding to the  
14 link is stored.

15 13. (Original) The method of Claim 12, wherein each of the absolute references comprises a  
16 base portion identifying a base directory on a network resource in or below which the HTML slide  
17 files are stored, and a relative portion, identifying a location at which the HTML slide files are stored  
18 relative to the base directory, further comprising the steps of:

19 (a) passing the base portion to the browser program to indicate a location of the  
20 base directory;

21 (b) removing the base portion from each of the links in said slide display  
22 commands so as leave only the relative portion of the link; and

23 (c) using the relative portion of each link to enable the browser program to access  
24 the HTML file associated with that link.

25 14. (Original) The method of Claim 10, wherein the browser program includes a display area  
26 having a primary frame, and a secondary frame, a media player screen appearing in the secondary  
27 frame, said presentation slide files being reproduced in the primary frame, and said live visual content  
28 being reproduced in the media player screen.

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1 15. (Original) The method of Claim 14, further comprising the steps of:

2 (a) indicating a location at which the data stream file is stored to the viewing  
3 computer;

4 (b) directing the data stream to the secondary frame; and

5 (c) playing the data stream in the secondary frame after at least a portion of the  
6 data stream file is received, to reproduce the live portion of the presentation.

7 16. (Currently Amended) A system for recording a live presentation including a predefined  
8 content portion having a plurality of presentation slides that are displayed in response to slide  
9 triggering events during the live presentation, and a live portion with live audio and/or visual content  
10 performed in conjunction with display of said plurality of presentation slides during the live  
11 presentation, the system comprising:

12 (a) a local computer having a memory in which a plurality of machine instructions  
13 are stored, a user interface, and a processor coupled to the memory for executing the machine  
14 instructions;

15 (b) a presentation application program comprising a portion of the plurality of  
16 machine instructions stored in the memory of the local computer, the presentation application  
17 program enabling:

18 (i) a presenter to change slides during the live presentation in response to  
19 slide triggering events entered through the user interface; and

20 (ii) slide display commands to be generated in response to the slide  
21 triggering events;

22 (c) an audio capture subsystem that produces a digital audio signal corresponding  
23 to the live audio content; and

24 (d) an encoding application module comprising a portion of the plurality of  
25 machine instructions stored in the memory of the local computer, said encoding application module  
26 being used for:

27 (i) encoding the digital audio signal into a data stream having a streaming  
28 data format;

29 (ii) automatically ~~embedding~~ including the slide display commands ~~into~~  
30 with the digital audio signal in the data stream ~~while~~ as the digital audio signal is encoded into the

1 data stream, said data stream being time indexed to enable synchronization of the slide display  
2 commands with the digital audio signal; and

3 (iii) saving the data stream to a data stream file such that when the data  
4 stream file is played, said audio content is reproduced, and said plurality of presentation slides are  
5 displayed in substantial synchrony with said audio content as it is reproduced, thereby replicating the  
6 live presentation and a timing with which the presentation slides were displayed during the live  
7 presentation in connection with the live audio content.

8 17. (Original) The system of Claim 16, wherein the live portion of the live presentation  
9 further comprises live visual content, further including a video capture subsystem that produces a  
10 digital video signal corresponding the live visual content, whereby the digital video signal is encoded  
11 along with the digital audio signal into the data stream, such that the audio and visual content is  
12 reproduced in synchrony when the data stream file is played.

13 18. (Original) The system of Claim 17, wherein the live visual content is captured as a  
14 plurality of video frames, each being encoded into the data stream with a corresponding time stamp,  
15 and the slide display commands are interleaved into the data stream, such that each slide display  
16 command has a relative time stamp based on its location in the data stream.

17 19. (Original) The system of Claim 18, wherein the plurality of video frames comprises a  
18 plurality of keyframes and deltaframes, and the encoding module further performs the functions of:

19 (a) adding a plurality of time index values to the data stream;  
20 (b) indexing each of said plurality of keyframes to a corresponding time index  
21 value, based on a timestamp of the keyframe; and

22 (c) indexing each slide display command to a nearest preceding keyframe time  
23 index value, based on a time stamp of the slide display command.

24 20. (Currently Amended) A system for recording a live presentation including a predefined  
25 content portion having a plurality of presentation slides that are displayed in response to slide  
26 triggering events during the live presentation, and a live portion comprising live audio content  
27 performed in conjunction with display of said plurality of presentation slides during the live  
28 presentation, the system comprising:

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1 (a) a local computer having a memory in which a plurality of machine instructions  
2 are stored, a user interface, and a processor coupled to the memory for executing the machine  
3 instructions;

4 (b) an audio capture subsystem that produces a digital audio signal corresponding  
5 to the live audio content;

6 (c) an encoding computer having a memory in which a plurality of machine  
7 instructions are stored, and a processor coupled to the memory for executing the machine  
8 instructions, the encoding computer being linked in communication with the local computer and the  
9 audio capture subsystem;

10 (d) a portion of the plurality of machine instructions stored in the memory of the  
11 encoding computer comprising an encoding module, execution of the encoding module performing  
12 the functions of:

13 (i) encoding the digital audio signal into a data stream having a streaming  
14 data format, said data stream being time indexed to enable synchronization of the slide display  
15 commands with the digital audio signal; and

16 (ii) saving the data stream to a data stream file; and

17 (e) a presentation application program comprising a portion of the plurality of  
18 machine instructions stored in the memory of the local computer, execution of the presentation  
19 application program enabling:

20 (i) a presenter to change slides during the live presentation by entering  
21 slide triggering events through the user interface;

22 (ii) slide display commands to be generated in response to the slide  
23 triggering events; and

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1 (iii) communication of the slide display commands to the encoding  
2 computer, said slide display commands being automatically ~~embedded into~~ included in the data  
3 stream with the encoded digital audio signal by the encoding module as the slide display commands  
4 are received by the encoding computer and as the digital audio signal is encoded into the data stream,  
5 such that when the data stream file is played, so that said audio content is reproduced and said  
6 plurality of presentation slides are displayed in substantial synchrony with said audio content as it is  
7 reproduced, thereby replicating the live presentation and the timing of the presentation slides being  
8 displayed in connection with the audio content.

9 21. (Original) The system of Claim 20, wherein the live portion of the live presentation  
10 further comprises live visual content, further including a video capture subsystem that produces a  
11 digital video signal corresponding to the live visual content, said digital video signal being encoded  
12 into the data stream by the encoding module executing on the encoding computer, such that the audio  
13 content and visual content are reproduced in synchrony when the data stream file is played.

14 22. (Previously Presented) The system of Claim 21, wherein the live visual content is  
15 captured as a plurality of video frames, each being encoded into the data stream with a corresponding  
16 time stamp, and wherein the slide display commands are interleaved into the data stream, such that  
17 each slide display command has a relative time stamp based on its location in the data stream.

18 23. (Original) The system of Claim 22, wherein the plurality of video frames comprises a  
19 plurality of keyframes and deltaframes, and the encoding module further performs the functions of:

- 20 (a) adding a plurality of time index values to the data stream;  
21 (b) indexing each of said plurality of keyframes to a corresponding time index  
22 value, based on a time stamp of the keyframe; and  
23 (c) indexing each slide display command to a nearest preceding keyframe time  
24 index value, based on a time stamp of the slide display command.

25 24. (Currently Amended) A computer-readable medium having computer-executable  
26 instructions for recording a live presentation having a predefined content portion that includes a  
27 plurality of presentation slides displayed on a computer in response to slide triggering events during  
28 the live presentation, and a live portion comprising live audio and/or visual content performed in  
29 conjunction with display of said plurality of presentation slides during the live presentation,  
30 execution of the computer-executable instructions causing a computer to:



1 (a) generate slide display commands corresponding to said slide triggering events,  
2 for controlling display of said plurality of presentation slides during playback of a recorded  
3 presentation;

4 (b) automatically embed the slide display commands into a data stream as the data  
5 stream is produced, the data stream comprising data corresponding to the live portion of the  
6 presentation indexed with timing to ensure that the slide display commands are synchronized with the  
7 audio and/or visual content as performed in the live presentation; and

8 (c) save the data stream with embedded slide display commands to a file ~~while~~  
9 ~~automatically embedding the slide display commands into the data stream~~, such that when the file is  
10 played, said live portion is reproduced and such that said plurality of presentation slides are displayed  
11 in substantial synchrony with said live portion, thereby replicating the live presentation and display of  
12 said plurality of presentation slides.

13 25. (Previously Presented) The computer-readable medium of Claim 24, wherein execution  
14 of the computer-executable instructions further cause the live portion to be captured as it is performed  
15 during the live presentation and to be encoded into a digital streaming format.

16 26. (Previously Presented) The computer-readable medium of Claim 25, wherein the slide  
17 display commands are interleaved into the data stream as the slide display commands are generated.

18 27. (Previously Presented) The computer-readable medium of Claim 25, wherein the live  
19 visual content is captured as a plurality of video frames, each being encoded into the data stream with  
20 a corresponding time stamp, and the slide display commands are interleaved into the data stream such  
21 that each slide display command has a relative time stamp based on its location in the data stream.

22 28. (Previously Presented) The computer-readable medium of Claim 25, wherein the  
23 plurality of video frames comprises a plurality of keyframes and deltaframes, execution of the  
24 computer-executable instructions causing a computer to:

25 (a) add a plurality of time index values to the data stream;

26 (b) index each of said plurality of keyframes to a corresponding time index value,  
27 based on a timestamp of the keyframe; and

28 (c) index each slide display command to a nearest preceding keyframe time index  
29 value, based on a time stamp of the slide display command.

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29. (Previously Presented) The computer-readable medium of Claim 24, wherein:

(a) the slide triggering events are captured as they occur during the live presentation;

(b) the slide display commands are generated based on the slide triggering events that are captured.